

What is claimed is:

1. An endplay structure for controlling endplay of a shaft of a motor, the endplay structure comprising:
 - a body including a generally elliptically-shaped recess therein, the recess being constructed and arranged to be disposed generally adjacent to an end of the shaft, and
 - an engagement member having a generally spherical portion constructed and arranged to be received in a press-fit arrangement with the recess, the engagement member having a surface that is constructed and arranged to contact the end of the shaft,
 - whereby, when the surface of the engagement member is contacted by the end of the shaft, the spherical portion of the engagement member is press-fitted into the recess to control endplay of the shaft.
2. The structure of claim 1, in combination with a housing of the motor, the body being integral with the housing.
3. The structure of claim 1, wherein the surface of the engagement member is defined by a concave radius surface.
4. The structure of claim 1, in combination with a gearhousing and a shaft of a motor, wherein the body is integral with the gearhousing.
5. The combination of claim 4, wherein the surface of the engagement member is defined by a concave radius surface that mates with a matching convex radius surface defined at the end of the shaft to define point-to point contact.
6. The structure of claim 1, wherein upstanding ribs extend from a bottom of the recess so as to define a deformable stop.
7. The structure of claim 6, wherein the ribs form a generally X-shape.

8. A electric motor comprising:
 - a gearhousing having a gear,
 - a shaft having a worm constructed and arranged to engage the gear,
 - the gearhousing having a body including a generally elliptically-shaped recess therein, the recess being disposed generally adjacent to an end of the shaft, and
 - an engagement member having a generally spherical portion constructed and arranged to be received in a press-fit arrangement with the recess, the engagement member having a surface constructed and arranged to contact the end of the shaft,
 - whereby, when the surface of the engagement member is contacted by the end of the shaft, the spherical portion of the engagement member is press-fitted into the recess to control endplay of the shaft.
9. The electric motor of claim 8, wherein the surface of the engagement member is defined by a concave radius surface.
10. The combination of claim 9, wherein the surface of the engagement member is defined by a concave radius surface that mates with a matching convex radius surface defined at the end of the shaft to define point-to-point contact.
11. The structure of claim 8, wherein upstanding ribs extend from a bottom of the recess so as to define a deformable stop.
12. The structure of claim 11, wherein the ribs form a generally X-shape.
13. An endplay structure for controlling endplay of a shaft of a motor, the endplay structure comprising:
 - a body including a means for receiving, the means for receiving being constructed and arranged to be disposed generally adjacent to an end of the shaft, and

means for engaging having a portion constructed and arranged to be received in a press-fit arrangement with the means for receiving, the means for engaging having a surface constructed and arranged to contact the end of the shaft,

whereby, when the surface of the means for engaging is contacted by the end of the shaft, the portion of the means for engaging is press-fitted into the means for receiving to control endplay of the shaft.

14. The structure of claim 13, in combination with a housing of the motor, the body being integral with the housing.
15. The structure of claim 13, wherein the surface of the means for engaging is defined by a concave radius surface.
16. The structure of claim 13, in combination with a gearhousing and a shaft of a motor, wherein the body is integral with the gearhousing.
17. The combination of claim 16, wherein the surface of the means for engaging is defined by a concave radius surface that mates with a matching convex radius surface defined at the end of the shaft to define point-to-point contact.
18. The structure of claim 13, wherein the means for receiving is a recess and upstanding ribs extend from a bottom of the recess so as to define a deformable stop.
19. The structure of claim 18, wherein the ribs form a generally X-shape.
20. The structure of claim 13, wherein the portion of the means for engaging is generally spherical and the means for receiving is a generally elliptically-shaped recess.